



t-core.

TRANSDISCIPLINARITY AND COMPLEXITY RESEARCH AT AIX-MARSEILLE UNIVERSITY

SHAPES OF COMPLEXITY

CROSSING PERSPECTIVES

Kickoff Meeting of the Excellence Chair

14 -16 APRIL 2025

THE EVENT BEGINS AT 2 PM

SPEAKERS:

ROBERTO CARLOS ABREGO MANRIQUEZ, ARANTZAZU SARAXTAGA ARREGI,
JEREMY ATTARD, BENEDIKT BALSCHUN, ALAIN BARRAT, ANDREA BROVELLI
GABRIELLA CROCCO, SEBASTIEN DUTREUIL, FAUSTO
FRAISOPI, VIKTOR JIRSA, JEAN-PIERRE LLORED, ERICA ONNIS, AUDREY VERMEULEN

IN PERSON: 29, Av. Robert Schuman, Aix-en-Provence ROM: 3.09 Bâtiment Multimedia
ZOOM: <https://univ-amu-fr.zoom.us/j/91082595917?pwd=XajDV4vWqiwOUXYbliPez89HptODLP.1>

amidex

Aix
Marseille
Université



CGGG
Centre Gilles Gaston
Granger UMR 7304



SHAPES OF COMPLEXITY CROSSING PERSPECTIVES

PROGRAMME

APRIL 14 - Monday

1:30 - 2 PM

Participants' welcome

2 PM

Addresses: President - vice President AMU/AMIDEX

Director du CGGG

Fausto Fraisopi: T-CO.RE: the challenges of complex thinking in XXI Century

2:30 - 3:30 PM

Gabriella Crocco: Complexity and Transdisciplinarity

COFFEE BREAK

4:00-5:00 PM

Alain Barrat: Feeding contact data into models of epidemic spread for actionable insights

6:00-7:00 PM

Viktor Jirsa: On the explanatory power of Digital Twin approaches in Brain Sciences

APRIL 15 - Tuesday

9.30 - 10.00 AM

Roberto Carlos Abrego: Phenomenological analysis of Benacerraf's epistemological problem

10.00 - 10.30 AM

Benedikt Balschun: Inter-disciplinarity and meta-ontology: an epistemic-structural approach

COFFEE BREAK

11 -12 AM

Arantzazu Saraxtaga Arregi: Epistemologies of complexity: contingency of order, asymmetry of time and irreducibility of uncertainty

12 -1.00 PM

Andrea Brovelli: Complexity in the brain: higher-order and synergistic neural interactions supporting reinforcement learning

LUNCH: BUFFET

2:00-3:00 PM

Jean-Pierre Llored: Contributions of the philosophy of chemistry and mesology to the conceptual analysis of complexity

3:00 - 4:00 PM

Jeremy Attard: Models, complexity and the micro-macro link

COFFEE BREAK

4:30 - 5.30

Erica Onnis: Which Metaphysics of Emergence for a Metaphysics of (Biological) Complexity?

5:30.00 - 6.30

Audrey Vermeulen: Ethical Collective Intelligence: A Cognitive Emergence
serving the Ethics by Design of Artificial Intelligence

20:00 DINNER

16 APRIL

8h30 - 10.30

WORKSHOP - CHAIR'S TEAM